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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/748,886 Confirmation No. 1408  
Applicant : N. KASAKO et al  
Filed : December 30, 2003  
Title : REMOTE STORAGE DISK CONTROL DEVICE AND METHOD  
FOR CONTROLLING THE SAME  
TC/AU : TBD  
Examiner : TBD  
Docket No. : H-1215  
Customer No.: 24956

Commissioner for Patents  
Mail Stop DD  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT (IDS)**  
**UNDER § 1.97 AND § 1.98**

Sir:

1. This IDS should be considered:

(a) when filed within three months of the filing date of the present application, or within three months of the filing date of the National Stage as set forth in § 1.491 in an international application, or before the mailing date of a first Office Action on the merits, whichever occurs last;

(b) when filed before the mailing date of either a Final Rejection under § 1.113 or a Notice of Allowance under § 1.311, whichever occurs first and when 1(a) does not apply. For this purpose, there is included herein either a certification in section 4 below (included when indicated by a marked box), or a fee of \$180.00 (a Credit Card Payment Form in the amount of \$180.00 is enclosed, or if not see section 5 below);

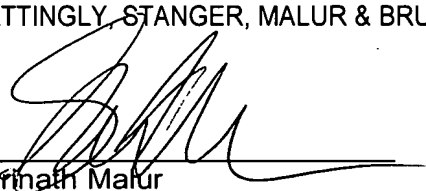
(c) when filed prior to the payment of the Issue Fee, when 1(a)-(b) do not apply, and when a certification is included in section 4 below (included when indicated by a marked box); then the Applicant(s) hereby petition(s) and request(s) consideration of this IDS, and provided herewith is a fee of \$180.00 (a Credit Card

Payment Form in the amount of \$180.00 to cover the petition fee, or if not see section 5 below).

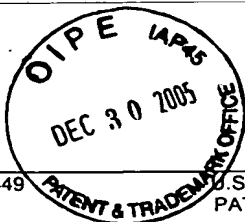
2. When 1(a)-(c) do not apply, then it is requested that this IDS be placed in the file.
3. Listing of the information submitted is on the attached Form PTO-1449, which forms a part of this IDS. A copy of each listed document is enclosed when needed.
4. If a fee or additional fee is required, the Commissioner is hereby authorized to charge any fee or additional fee that may be required and credit any excess to Deposit Account No. 50-1417.
5. No explanation of relevancy is being provided for the following document(s) because each is either in the English language, discussed in the present Specification, or its relevance is as stated in a communication from a foreign patent office in a counterpart foreign application.
6. If the PTO determines that part(s) of the required content is inadvertently omitted, then it is requested that the Applicant(s) be given additional time and specific identification of such omission(s) to enable full compliance.

Respectfully submitted,

MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C.

By   
Shrinath Malur  
Reg. No. 34,663  
(703) 684-1120

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| FORM PTO-1449<br>(REV. 7-80) | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO.<br>H-1215 | SERIAL NO.<br>10/748,886 |
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**LIST OF DOCUMENTS CITED BY APPLICANT**  
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| APPLICANT<br>N. KASAKO et al     |
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**U.S. PATENT DOCUMENTS**

| * EXAMINER<br>INITIAL |    | DOCUMENT         | DATE     | NAME             | CLASS | SUBCLASS | FILING DATE<br>(If Appropriate) |
|-----------------------|----|------------------|----------|------------------|-------|----------|---------------------------------|
|                       | AA | 2003/<br>093597  | 05/15/03 | Marik et al      |       |          |                                 |
|                       | AB | 6,529,976        | 03/04/03 | Fukuzawa et al   |       |          |                                 |
|                       | AC | 6,529,944        | 03/04/03 | Lecrone, Douglas |       |          |                                 |
|                       | AD | 6,247,103        | 06/12/01 | Kern et al       |       |          |                                 |
|                       | AE | 6,173,374        | 01/09/01 | Heil et al       |       |          |                                 |
|                       | AF | 6,654,830        | 11/25/03 | Taylor et al     |       |          |                                 |
|                       | AG | 2003/<br>0212854 | 11/13/03 | Kitamura et al   |       |          |                                 |
|                       | AH | 6,640,278        | 10/28/03 | Nolan et al      |       |          |                                 |
|                       | AI | 6,553,408        | 04/22/03 | Merrel et al     |       |          |                                 |
|                       | AJ | 6,446,141        | 09/03/02 | Nolan et al      |       |          |                                 |
|                       | AK | 2002/<br>0029326 | 03/07/02 | Reuter et al     |       |          |                                 |

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|  |    | DOCUMENT  | DATE     | COUNTRY            | CLASS | SUBCLASS | TRANSLATION              |                          |
|--|----|-----------|----------|--------------------|-------|----------|--------------------------|--------------------------|
|  |    |           |          |                    |       |          | YES                      | NO                       |
|  | AL | 0869438   | 10/07/98 | EP                 |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | AM | 09-288547 | 04/11/97 | JP (Abstract only) |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | AN | 11-184641 | 07/09/99 | JP (Abstract only) |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | AO | 97-09676  | 03/13/97 | WO                 |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | AP | 1130514   | 09/05/01 | EP                 |       |          | <input type="checkbox"/> | <input type="checkbox"/> |

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, etc.)

|  |    |  |
|--|----|--|
|  | AR | "Introduction to Storage Pooling, Consolidation Storage Resources with DataCore SANsymphony Software", White Paper, DataCore Software, updated July 2003, pp. 1-8. |
|  | AS | "SAN Virtualization Guidelines", DataCore Software Corporation, 2000, pp. 1-9.   |
|  | AT | Sarkar et al, "Internet Protocol storage area networks" IBM Systems Journal, 2003, Vol. 42, No. 2, pp. 218-231.  |

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| AA                    | 6,883,064        | 04/19/05 | Yoshida et al    |       |          |                                 |
| AB                    | 2005/<br>0081009 | 04/14/05 | Williams et al   |       |          |                                 |
| AC                    | 6,851,020        | 02/01/05 | Matsumoto et al  |       |          |                                 |
| AD                    | 2005/<br>0010743 | 01/13/05 | Tremblay et al   |       |          |                                 |
| AE                    | 2004/<br>0260875 | 12/23/04 | Murotani et al   |       |          |                                 |
| AF                    | 2004/<br>0260966 | 12/23/04 | Kaiya et al      |       |          |                                 |
| AG                    | 6,826,778        | 11/30/04 | Bopardikar et al |       |          |                                 |
| AH                    | 2004/<br>0230980 | 11/18/04 | Koyama et al     |       |          |                                 |
| AI                    | 6,816,948        | 11/09/04 | Kitamura et al   |       |          |                                 |
| AJ                    | 6,779,255        | 09/28/04 | Blumenau         |       |          |                                 |
| AK                    | 2004/<br>0172510 | 09/02/04 | Nagashima et al  |       |          |                                 |

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|--|----|-----------------|----------|----------------------------|-------|----------|-------------------------------------|--------------------------|
|  |    |                 |          |                            |       |          | YES                                 | NO                       |
|  | AL | 2002/<br>230246 | 08/16/02 | JP (with English Abstract) |       |          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|  | AM | 2002/<br>157091 | 05/31/02 | JP (with English Abstract) |       |          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|  | AN | 2001/<br>067187 | 03/16/01 | JP (with English Abstract) |       |          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|  | AO | 2000/<br>293317 | 10/20/00 | JP (with English Abstract) |       |          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|  | AP | 10-283272       | 10/23/98 | JP (with English Abstract) |       |          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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|  | AR | SICOLA "SCSI-3 Fault Tolerant Controller Configurations", T10 Technical   |
|  |    | Committee of the International Committee on Information Technology Standards, Feb. 28, 1996, available at <a href="http://www.t10.org">http://www.t10.org</a> (1996). |
|  | AS | "Network Attached Storage", Product White Paper, Feb. 2002,   |
|  |    | Sony Electronics Inc., (2002).  |
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|   | AA | 2004/<br>0148443   | 07-29-04 | Achiwa                           |                          |          |   |
|   | AB | 2004/<br>0143832   | 07/22/04 | Yamamoto et al                   |                          |          |   |
|   | AC | 2004/<br>0123180   | 06/24/04 | Soejima et al                    |                          |          |   |
|   | AD | 6,745,281  | 06/01/04 | Saegusa                          |                          |          |   |
|   | AE | 2004/<br>0054850   | 03/18/04 | Fisk et al                       |                          |          |   |
|   | AF | 6,708,232  | 03/16/04 | Obara                            |                          |          |   |
|   | AG | 2004/<br>0049553   | 03/11/04 | Iwamura et al                    |                          |          |   |
|   | AH | 6,684,310  | 01/27/04 | Anzai et al                      |                          |          |   |
|   | AI | 6,681,303  | 01/20/04 | Watabe et al                     |                          |          |   |
|   | AJ | 2004/<br>0003022   | 01/01/04 | Garrison et al                   |                          |          |   |
|   | AK | 6,647,476  | 11/11/03 | Nagasawa et al                   |                          |          |   |
| <b>FOREIGN PATENT DOCUMENTS</b>   |    |  |          |                                  |                          |          |   |
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| <b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, etc.)</i>    |    |  |          |                                  |                          |          |   |
|   | AR | Anderson et al, "Hippodrome: Running Circles Around Storage Administration",                           |          |                                  |                          |          |   |
|   |    | Proceedings of Conference on File and Storage Technologies (FAST '02),<br>January , 2002, pp. 175-188. |          |                                  |                          |          |   |
|   | AS |  |          |                                  |                          |          |   |
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|   | AT |  |          |                                  |                          |          |   |
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|   | AA | 2003/<br>0204597   | 10/30/03 | Arakawa et al                    |                          |          |   |
|   | AB | 6,640,291  | 10/28/03 | Fujibayashi                      |                          |          |   |
|   | AC | 2003/<br>0182525   | 09/25/03 | O'Connell                        |                          |          |   |
|   | AD | 2003/<br>0145169   | 07/31/03 | Nagasawa                         |                          |          |   |
|   | AE | 6,598,134  | 07/22/03 | Ofek et al                       |                          |          |   |
|   | AF | 2003/<br>0126327   | 07/03/03 | Pesola et al                     |                          |          |   |
|   | AG | 6,523,096  | 02/18/03 | Sanada et al                     |                          |          |   |
|   | AH | 2002/<br>1094523   | 12/19/02 | Ulrich et al                     |                          |          |   |
|   | AI | 6,484,173  | 11/19/02 | O'Hare et al                     |                          |          |   |
|   | AJ | 2002/<br>0156887   | 10/24/02 | Hashimoto                        |                          |          |   |
|   | AK | 6,457,139  | 09/24/02 | D'Errico et al                   |                          |          |   |
| <b>FOREIGN PATENT DOCUMENTS</b>   |    |  |          |                                  |                          |          |   |
|   |    | DOCUMENT   | DATE     | COUNTRY                          | CLASS                    | SUBCLASS | TRANSLATION<br>YES NO                             |
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|   | AP |  |          |                                  |                          |          | <input type="checkbox"/> <input type="checkbox"/> |
| <b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)</b>           |    |  |          |                                  |                          |          |   |
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|   | AA | 6,356,977  | 03/12/02 | Ofek et al                       |                          |          |   |
|   | AB | 2002/<br>0004857   | 01/10/02 | Arakawa et al                    |                          |          |   |
|   | AC | 2001/<br>0052018   | 12/13/01 | Yokokura                         |                          |          |   |
|   | AD | 6,240,486  | 05/29/01 | Ofek et al                       |                          |          |   |
|   | AE | 6,240,494  | 05/29/01 | Nagasawa et al                   |                          |          |   |
|   | AF | 6,230,239  | 05/08/01 | Sakaki et al                     |                          |          |   |
|   | AG | 6,219,753  | 04/17/01 | Richardson                       |                          |          |   |
|   | AH | 2002/<br>0026558   | 02/28/02 | Reuter et al                     |                          |          |   |
|   | AI | 2002/<br>0019920   | 02/14/02 | Reuter et al                     |                          |          |   |
|   | AJ | 2002/<br>0019922   | 02/14/02 | Reuter et al                     |                          |          |   |
|   | AK | 2002/<br>0019923   | 02/14/02 | Reuter et al                     |                          |          |   |
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|   | AL |  |          |                                  |                          |          | <input type="checkbox"/> <input type="checkbox"/>   |
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|                       | AA | 5,978,890        | 11/02/99 | Ozawa et al      |       |          |                                 |
|                       | AB | 5,956,750        | 09/21/99 | Yamamoto et al   |       |          |                                 |
|                       | AC | 5,835,954        | 11/10/98 | Duyanovich et al |       |          |                                 |
|                       | AD | 5,758,118        | 05/26/98 | Choy et al       |       |          |                                 |
|                       | AE | 5,680,640        | 10/21/97 | Ofek et al       |       |          |                                 |
|                       | AF | 5,548,712        | 08/20/96 | Larson et al     |       |          |                                 |
|                       | AG | 5,480,465        | 01/18/95 | Gusella et al    |       |          |                                 |
|                       | AH | 4,025,904        | 05/24/77 | Adney et al      |       |          |                                 |
|                       | AI | 3,771,137        | 11/06/73 | Barner et al     |       |          |                                 |
|                       | AJ | 2004/<br>0064610 | 04/01/04 | Fukuzawa et al   |       |          |                                 |
|                       | AK | 2004/<br>0064641 | 04/01/04 | Kodama           |       |          |                                 |

## FOREIGN PATENT DOCUMENTS

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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EXAMINER

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|   | AA | 6,681,339  | 01/20/04 | McKean et al                     |                          |          |  |                          |
|   | AB | 6,675,258  | 01/06/04 | Bramhall et al                   |                          |          |  |                          |
|   | AC | 6,654,831  | 11/25/03 | Otterness et al                  |                          |          |  |                          |
|   | AD | 2003/<br>0212860   | 11/13/03 | Jiang et al                      |                          |          |  |                          |
|   | AE | 6,647,474  | 11/11/03 | Yanai et al                      |                          |          |  |                          |
|   | AF | 2003/<br>0200387   | 10/23/03 | Urabe et al                      |                          |          |  |                          |
|   | AG | 2003/<br>0167419   | 09/04/03 | Yanai et al                      |                          |          |  |                          |
|   | AH | 2003/<br>0158999   | 08/21/03 | Hauck et al                      |                          |          |  |                          |
|   | AI | 2003/<br>0145168   | 07/31/03 | LeCrone et al                    |                          |          |  |                          |
|   | AJ | 2002/<br>0115432   | 06/19/03 | Biessener et al                  |                          |          |  |                          |
|   | AK | 2003/<br>0101228   | 05/29/03 | Busser et al                     |                          |          |  |                          |
| <b>FOREIGN PATENT DOCUMENTS</b>   |    |  |          |                                  |                          |          |  |                          |
|   |    | DOCUMENT   | DATE     | COUNTRY                          | CLASS                    | SUBCLASS | TRANSLATION<br>YES NO                  |                          |
|   | AL |  |          |                                  |                          |          | <input type="checkbox"/>               | <input type="checkbox"/> |
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| <b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, etc.)</i>    |    |  |          |                                  |                          |          |  |                          |
|   | AR |  |          |                                  |                          |          |  |                          |
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| FORM PTO-1449<br>(REV. 7-80)  |    | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE |          | ATTY. DOCKET NO.<br>H-1215       | SERIAL NO.<br>11/087,983 |          |   |
| <b>LIST OF DOCUMENTS CITED BY APPLICANT</b><br><i>(Use several sheets if necessary)</i> |    |  |          | APPLICANT<br>N. KASAKO et al     |                          |          |   |
|   |    |  |          | FILING DATE<br>December 30, 2003 |                          | GROUP    |   |
| <b>U.S. PATENT DOCUMENTS</b>  |    |  |          |                                  |                          |          |   |
| * EXAMINER<br>INITIAL   |    | DOCUMENT   | DATE     | NAME                             | CLASS                    | SUBCLASS | FILING DATE<br><i>(If Appropriate)</i>            |
|   | AA | 2003/<br>0097607   | 05/22/03 | Bessire                          |                          |          |   |
|   | AB | 2003/<br>0056038   | 03/20/03 | Cochran                          |                          |          |   |
|   | AC | 2003/<br>0051109   | 03/13/03 | Cochran                          |                          |          |   |
|   | AD | 2003/<br>0037071   | 02/20/03 | Harris et al                     |                          |          |   |
|   | AE | 6,490,659  | 12/03/02 | McKean et al                     |                          |          |   |
|   | AF | 2002/<br>0133735   | 09/19/02 | McKean et al                     |                          |          |   |
|   | AG | 6,446,175  | 09/03/02 | West et al                       |                          |          |   |
|   | AH | 6,247,099  | 06/12/01 | Skazinski et al                  |                          |          |   |
|   | AI | 6,108,748  | 08/22/00 | Ofek et al                       |                          |          |   |
|   | AJ | 6,012,123  | 01/04/00 | Pecone et al                     |                          |          |   |
|   | AK | 5,917,723  | 06/29/99 | Binford                          |                          |          |   |
| <b>FOREIGN PATENT DOCUMENTS</b>   |    |  |          |                                  |                          |          |   |
|   |    | DOCUMENT   | DATE     | COUNTRY                          | CLASS                    | SUBCLASS | TRANSLATION<br>YES NO                             |
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|   | AP |  |          |                                  |                          |          | <input type="checkbox"/> <input type="checkbox"/> |
| <b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, etc.)</i>    |    |  |          |                                  |                          |          |   |
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| FORM PTO-1449<br>(REV. 7-80)  |    | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE |          | ATTY. DOCKET NO.<br>H-1215       | SERIAL NO.<br>11/087,983 |          |   |
| <b>LIST OF DOCUMENTS CITED BY APPLICANT</b><br><i>(Use several sheets if necessary)</i>   |    |  |          | APPLICANT<br>N. KASAKO et al     |                          |          |   |
|   |    |  |          | FILING DATE<br>December 30, 2003 |                          | GROUP    |   |
| <b>U.S. PATENT DOCUMENTS</b>  |    |  |          |                                  |                          |          |   |
| * EXAMINER<br>INITIAL   |    | DOCUMENT   | DATE     | NAME                             | CLASS                    | SUBCLASS | FILING DATE<br><i>(If Appropriate)</i>  |
|   | AA | 5,895,485  | 04/20/99 | Loechel et al                    |                          |          |   |
|   | AB | 5,870,537  | 02/09/99 | Kern et al                       |                          |          |   |
|   | AC | 5,680,580  | 10/21/97 | Beardsley et al                  |                          |          |   |
|   | AD | 5,504,882  | 04/02/96 | Chai et al                       |                          |          |   |
|   | AE | 5,459,857  | 10/17/95 | Ludlam et al                     |                          |          |   |
|   | AF |  |          |                                  |                          |          |   |
|   | AG |  |          |                                  |                          |          |   |
|   | AH |  |          |                                  |                          |          |   |
|   | AI |  |          |                                  |                          |          |   |
|   | AJ |  |          |                                  |                          |          |   |
|   | AK |  |          |                                  |                          |          |   |
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|   |    | DOCUMENT   | DATE     | COUNTRY                          | CLASS                    | SUBCLASS | <div style="display: flex; justify-content: space-between;"> <div>TRANSLATION</div> <div>YES</div> <div>NO</div> </div> |
|   | AL |  |          |                                  |                          |          | <input type="checkbox"/> <input type="checkbox"/>   |
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|   | AP |  |          |                                  |                          |          | <input type="checkbox"/> <input type="checkbox"/>   |
| <b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, etc.)</i>  |    |  |          |                                  |                          |          |   |
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